RoamAbout Next-Generation Access Point

11 Mbps Ethernet Access Point and Wireless Laptop/Desktop Solutions

Features

- IEEE 802.11 11Mbps compliance provides seamless vendor interoperability
- Remote power takes the access point out of the wiring closet
- Attractive design for wall or ceiling mounting
- Encryption supporting IEEE 802.11 40-bit Wired Equivalent Privacy (WEP), 128-bit key versions are also available for the highest security
- Enhanced Access Control allows network managers total control over who connects to the network
- Client diagnostic tools identify signal strength and strategic placement
- Supports as many as 250 laptop and desktop users
- Multi-channel roaming supports three non-overlapping channels within the same area
- Flash design offers easy upgrades to the Access Point

Overview

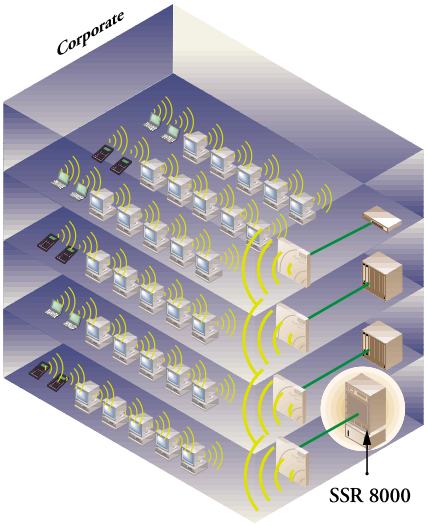
Cabletron's RoamAbout family of products allows you to quickly, easily, and economically establish a wireless data LAN network, offering users dependable, Ethernet-like performance while utilizing the full 2.4GHz band.

The RoamAbout 802.11 family is made up of two components: a 2.4 GHz Direct Sequence Spread Spectrum (DSSS) wireless Ethernet adapter, and a full functioning switched Access Point which quickly and easily connects to your wired LAN via Unshielded Twisted Pair.

The wireless Ethernet adapter is offered in two industry-standard packages—a PC Card (or ISA), or with an ISA adapter card for desktop PCs—both allowing you to extend your wired LAN while quickly establishing a cost-effective wireless LAN. With today's new high-rate 802.11 compliant products, customers will have greater wireless extension and vendor interoperability. Combined with award-winning design and functionality, RoamAbout customers can easily integrate multiple hand-held devices, where full interoperability is supported, making wireless communication effortless.

CABLETRON SYSTEMS

Wireless Distribution



Mobile Personal Digital Devices

Fixed Desktop Computer

Mobile Laptop Computer

RoamAbout Access Points

Take Your LAN With You!

Cabletron's RoamAbout Products allow you to easily stay connected to your wired LAN through the use of wireless technology. Whether building new departmental workgroups where cabling runs are difficult or prohibited, or giving temporary access to laptop users or users with compliant hand-held devices, RoamAbout is the perfect answer to extended connectivity and better productivity.

Ready for RoamAbout

RoamAbout is a productivity-enhancing utility that is easily integrated into any compliant infrastructure, allowing businesses and organizations the freedom they need to spread the benefits of shared data access. No matter the industry you're in, Cabletron's RoamAbout is easily adapted as a high-performance alternative to otherwise costly network expansion. Customers who rely on RoamAbout include:

- Health care customers including hospitals, clinics, research facilities and telemedicine operations
- Education customers including K-12, colleges, universities and distance learning campuses
- Fortune 500 and 1000 customers including financial, manufacturing, hospitality businesses
- Historical sites and buildings where traditional cabling runs are prohibited
- Government operations including Federal, State and Local

Inside the SmartSwitch RoamAbout Wireless LAN

- The Access Point—a full functioning switch that quickly and easily connects to your wired LAN by 10Base-T Ethernet connections.
- The Wireless 802.11-compliant Adapter—uses RF (Radio Frequency) to transmit data signals to clients. Clients can either be industry standard notebooks, desktop PCs or compatible devices such as hand-held organizers.

With Cabletron's RoamAbout, no user in-building license is required because it utilizes the ISM (Industrial Scientific and Medical) band with a performance-enhancing 2.4 GHz Direct Sequence Spread Spectrum frequency.

Cost-Effective Features and Benefits

- RF distance from the access point can reach up to 550' within an office or building structure, and an efficient 1200' (see Technical Specifications on the following page) in open air when going from building to building within a campus environment. This saves you money on long, complex and sometimes limiting cable runs. In fact, Cabletron's RoamAbout products can reach entire office buildings when multiple access points are strategically placed throughout the infrastructure.
- The RoamAbout Access Point supports up to 250 users or more depending on how heavily the bandwidth is utilized. This allows you to set up temporary or permanent departments or workgroups for better utilization of office space and LAN resources, while saving time and money on temporary cabling and confusing configurations.
- RoamAbout Access Point Manager—a free Access Point management tool—allows you to easily configure one or more RoamAbout Access Points. What's more, the included RoamAbout Client Software provides you with the helpful tools to graphically determine your precise coverage area and needs, further helping to trim costs while increasing efficiency.
- Cabletron's RoamAbout—and your entire network—is easily managed with the support of Cabletron's industry-leading SPECTRUM and ClearVISN intelligent, automated network management tools.

Laptop with Wireless PC Card

IEEE 802.11 Wireless PC Card

Performance and Management

- IEEE 802.11 11 Mbps compliant means vendor interoperability, seamless integration and increased savings. RoamAbout is also compatible with older, 2 Mbps 802.11 direct sequence spread spectrum products.
- RoamAbout Access Point Manager delivers complete SNMP management, including the setup and configuration of multiple access points.
- Multi-vendor interoperability for seamless connectivity to other vendors' 802.11 products offers you greater ease of use and interoperability while stretching your original technology investments.
- Multi-channel roaming provides support of up to three non-overlapping channels within the same area to improve mobility and greatly increase performance over other wireless solutions.

Ordering Information

CSIWS-xx*
RoamAbout Access Point—North American (The PC radio Card does not ship with the Access Point. When ordering the access point you MUST order a PC card for your specific country.)

CSIBD-xx**
RoamAbout PC Card FCC (North American Model)

CSIBD-xx-128**
128-bit Encryption PC Card (North American)

Optional Products

CSIBB-IA
RoamAbout Indoor Antenna (Used for wiring closet applications where you want to extend the antenna above the closet or when using the PC Card in desktop applications)

CSIBB-IP
RoamAbout ISA Carrier (Requires one of either CSIBB-AA,AB,AF,AJ)

Management Software

QA-5FVAA-H8
ClearVISN CD-ROM

QM-MQDAA-BA
ClearVISN MultiChassis Manager with SPECTRUM Integration

Packages Available

Multipacks of cards

Startup pack
Containing access point, radio cards and an indoor antenna

Site survey demo kits

*Use -AA for North America, -AB for international with 220-volt input

**Use -AA for North America, -AB for Europe/Asia-Pacific, -AF for France/Spain, -AJ for Japan

Specifications

Technical

2.4 GHz PC Card
Frequency Band: 2400 – 2483.5 MHz
Number of Selectable Sub Channels Subject to Local Regulations:
United States (FCC): 11
France (FR): 4
Japan (JP): 1
Other Countries (ETSI): 13
Modulation Technique: Direct Sequence Spread Spectrum (CCK)
Spreading: 11 –chip Barker sequence
Bit Error Rate: Better than 10^{-5}
Media Access Protocol: CSMA/CA (Collision Avoidance) with ACK
Interface: PC Card Type II Extended : ISA Carrier Card = size AT
Data Rate: 11 Mbps (with fall back rates of 5.5, 2, and 1 Mbps) Automatic Rate Selection
Range:

Open Environment	66m @ 11 Mbps
	91m @ 5.5 Mbps
	125m @ 2 Mbps-
	171m @ 1 Mbps
Semi-open Environment	28m @ 11 Mbps
	35m @ 5.5 Mbps
	43m @ 2 Mbps
	53m @ 1 Mbps
Receiver Sensitivity	-84dBm @ 11 Mbps
	-87dBm @ 5.5 Mbps
	-90dBm @ 2 Mbps
	-93dBm @ 2 Mbps

Compatibility: Supports Windows 95, 98, Windows NT (NDIS Miniport Driver), Windows 2000, Macintosh and Windows CE. Novell Client 3.x & 4.x

Electrical

RoamAbout Access Point
9 to 60Vdc/10 to 30 Vac, 5W
Power Supply:
Input Voltage:

North American	120 Vac
International	120-240 Vac

Frequency:

North American	60 Hz
International	47–63 Hz

Output Voltage:

North American	2.4 Vac
International	2.4 Vdc

Current:

North American	208 mA
International	208 mA

Standards:

North American	IEEE 802.11/802.11b
International	IEEE 802.11/802.11b

Physical

2.4 GHz PC Card
Dimensions: 117.8mm x 53.95mm x 8.7mm

RoamAbout Access Point
Dimensions:
Base Unit: H 28mm x 108mm x 171.5mm (1.1" x 4.25" x 6.75")
Plastic Décor Cover: 40.6mm x 165.1mm x 177.8mm (1.6" x 6.5" x 7.0")
Weight: .68 kg (1.5 lb)

Environmental

2.4 GHz PC Card
Operating Temperature:
0 to 50˚C
Operating Humidity: 95% max. (non condensing)
Power Supply: 5V Power Supply
Standards: IEEE 802.11/802.11b

RoamAbout Access Point
Operating Temperature:
41 to 122 F (5˚ to 50˚ C)
Non-Operating Temperature:
-40 to 151 F (-40˚ to 66˚ C)
Maximum Rate of Change:
20˚ C/h (36˚ F/h)
Altitude Above Sea Level: To 2.4 km (8000 ft)
Air Flow: Convection cooled
Operating Humidity:
95% max. (non-condensing)

Agency and Standards

2.4 GHz PC Card
Safety:
US: UL1950
Canada: CSA C22.2 No. 950
Europe: EN60950 and 73/23/EEC
Australia: AS3260

Electromagnetic Compatibility (EMC):
US: FCC Part 15
Canada: CS-03 and ISC RSS210
Europe: EN55022, EN50082-1, 89/336/EEC and ETS 300-328
Japan: VCCI V-3 and MPT Radio Regulations
Australia: AS3548

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